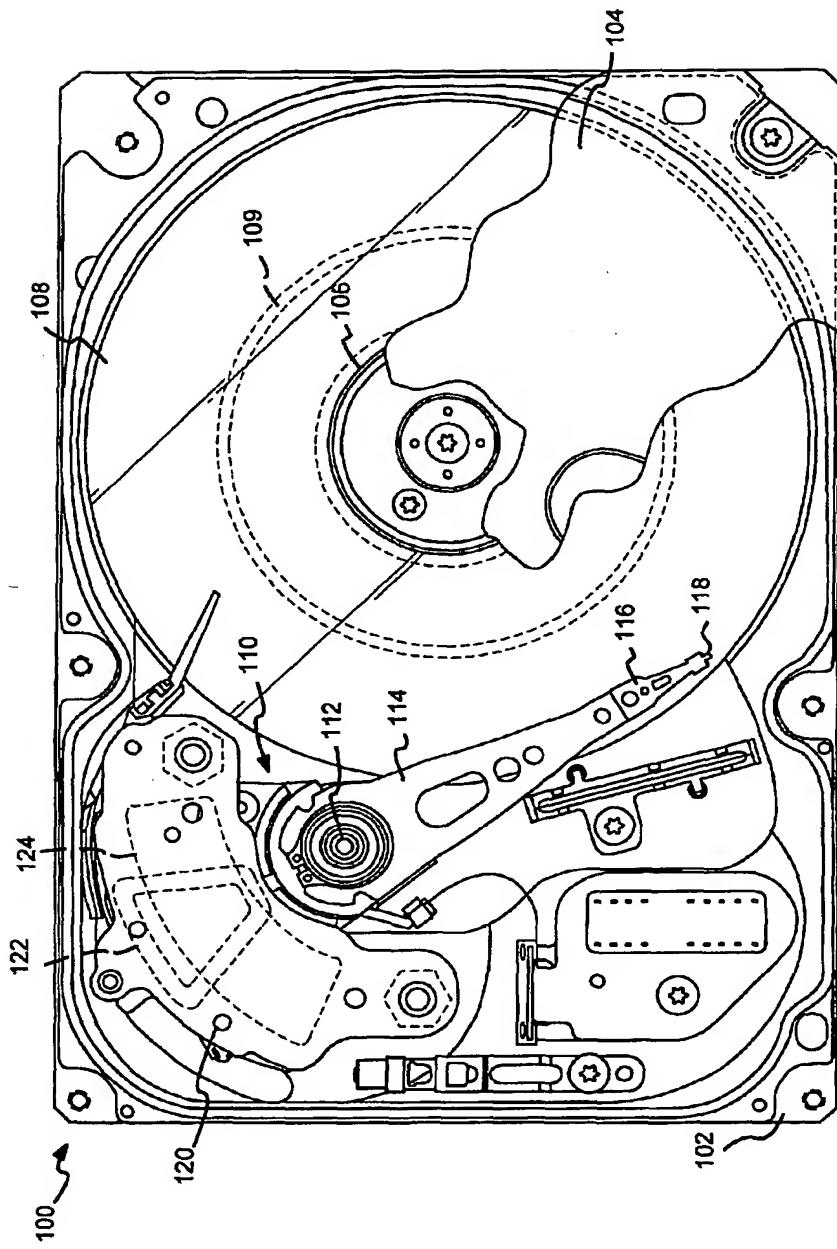


FIG. 1



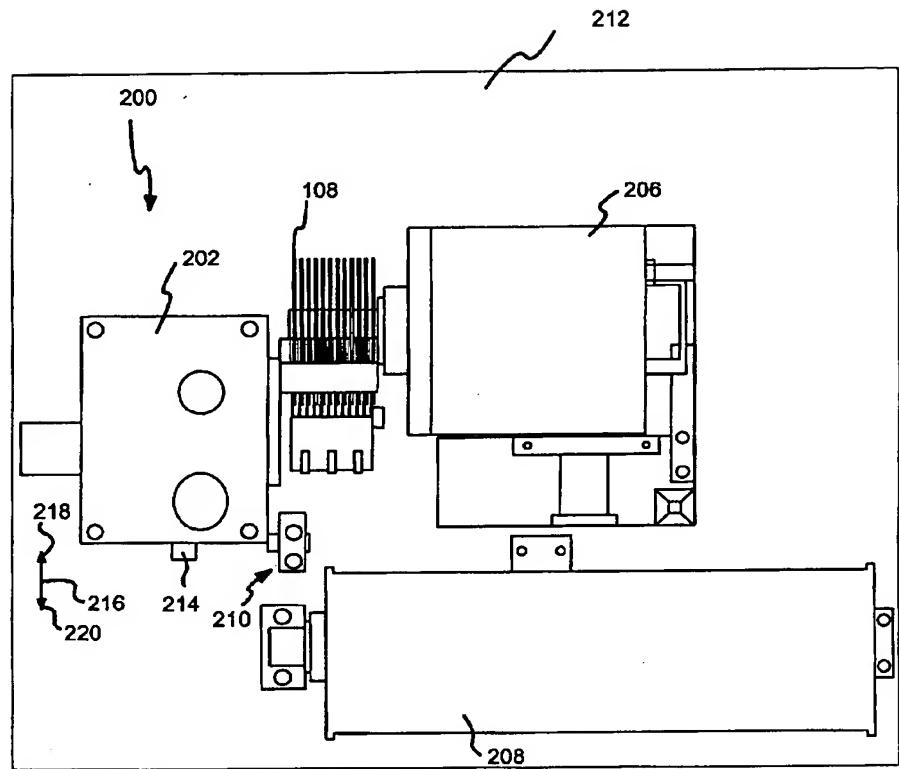


FIG. 2

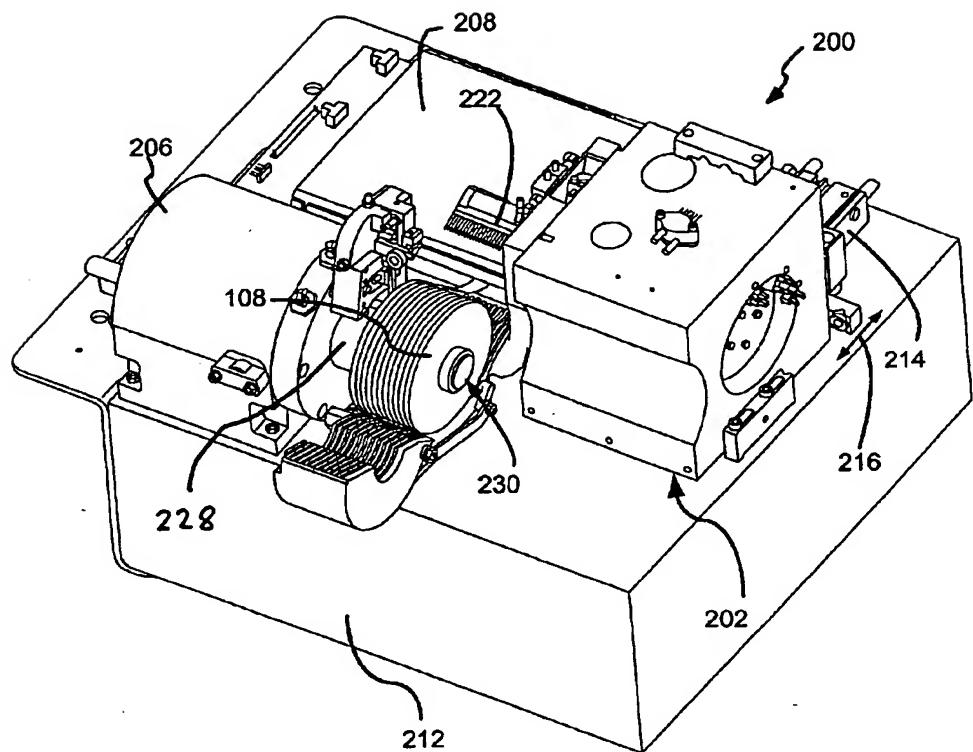


FIG. 3

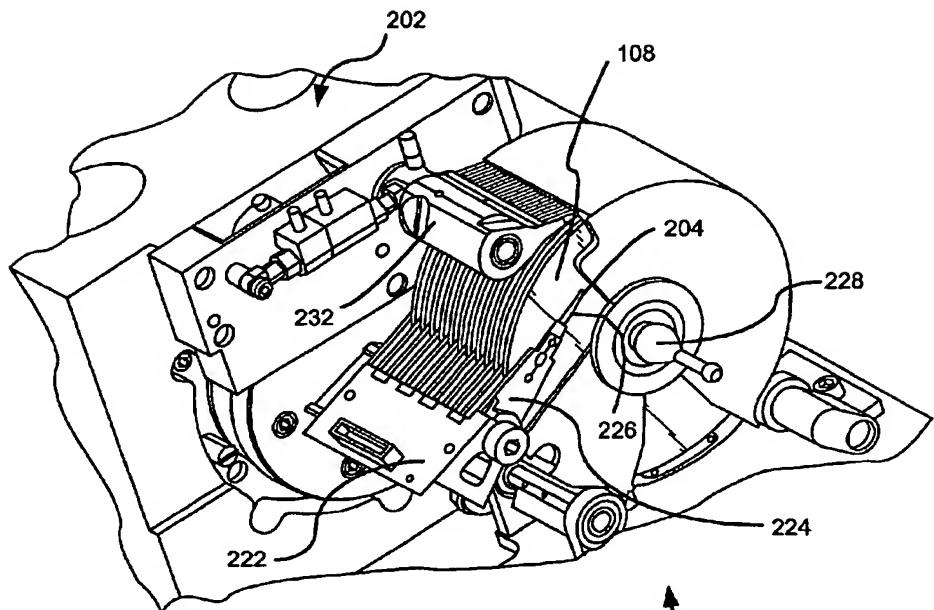


FIG. 4

200

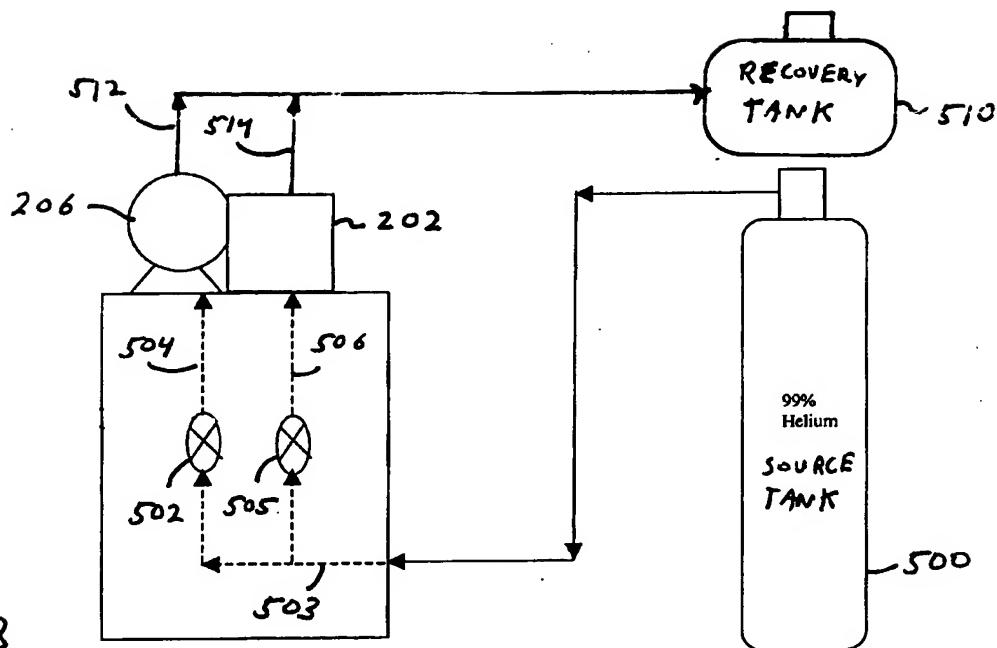


FIG. 18

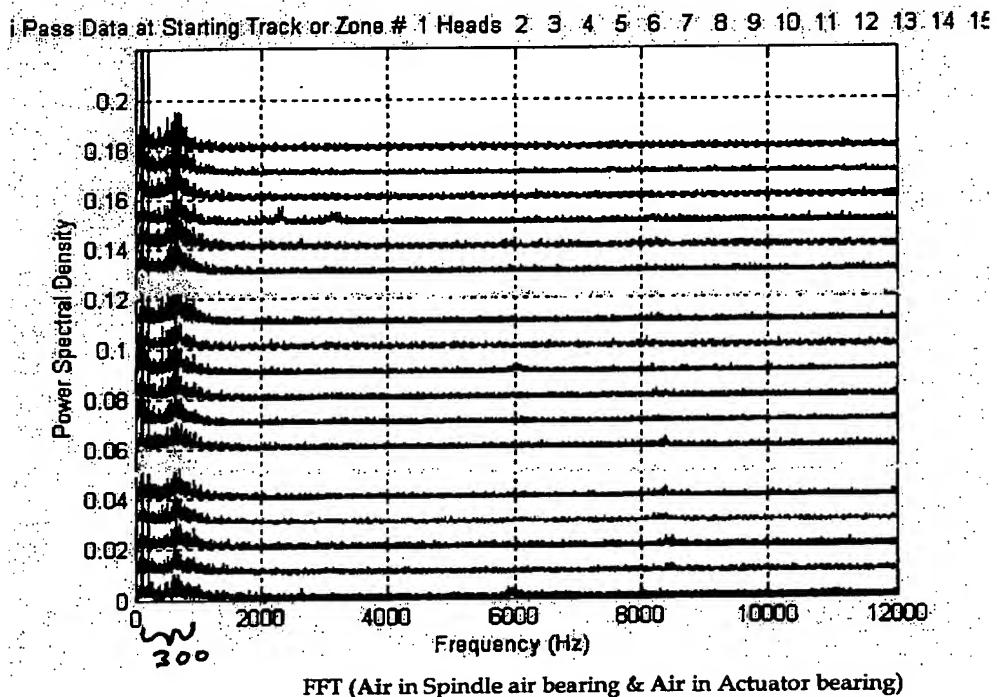
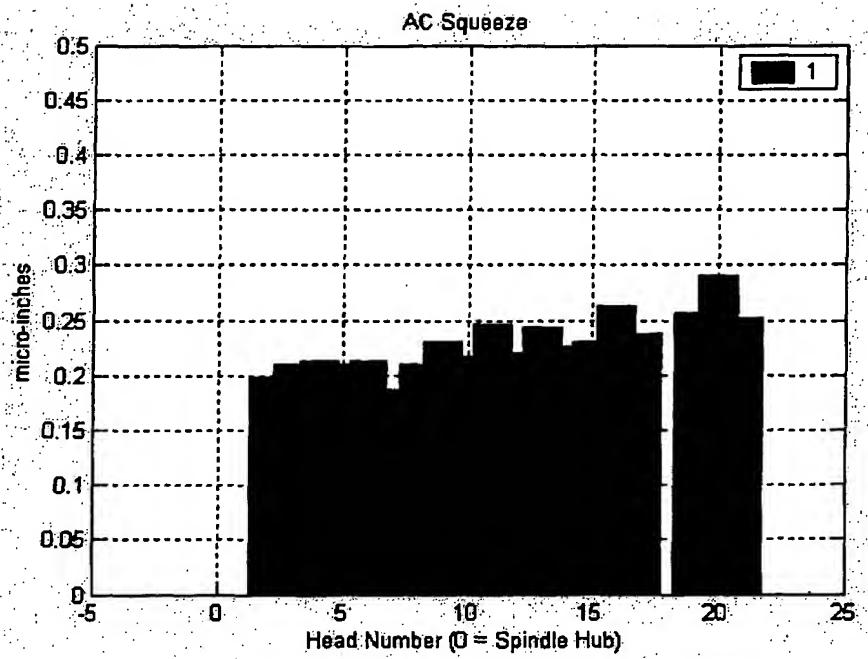
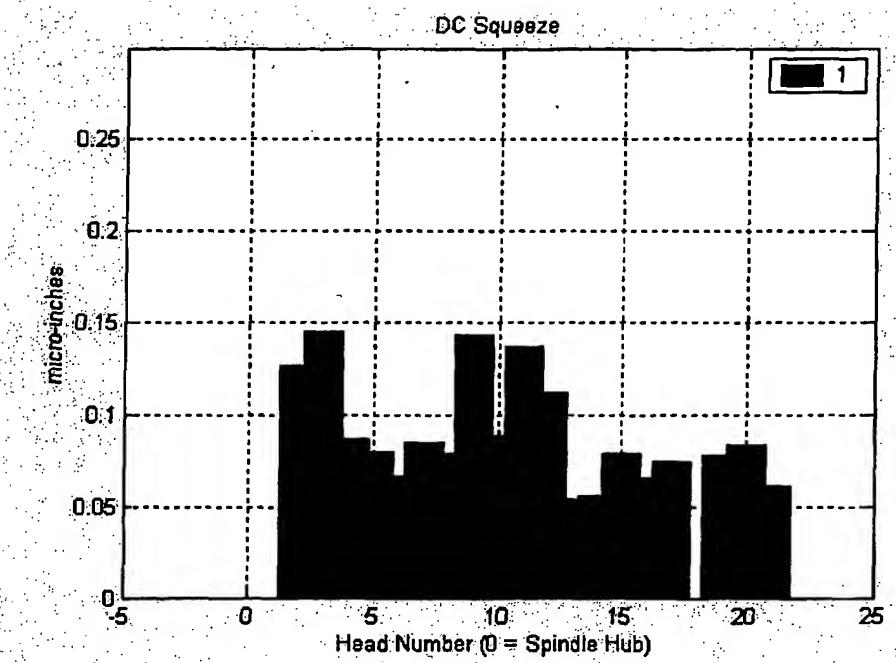


FIG. 5



AC Squeeze (Air in Spindle air bearing & Air in Actuator bearing)

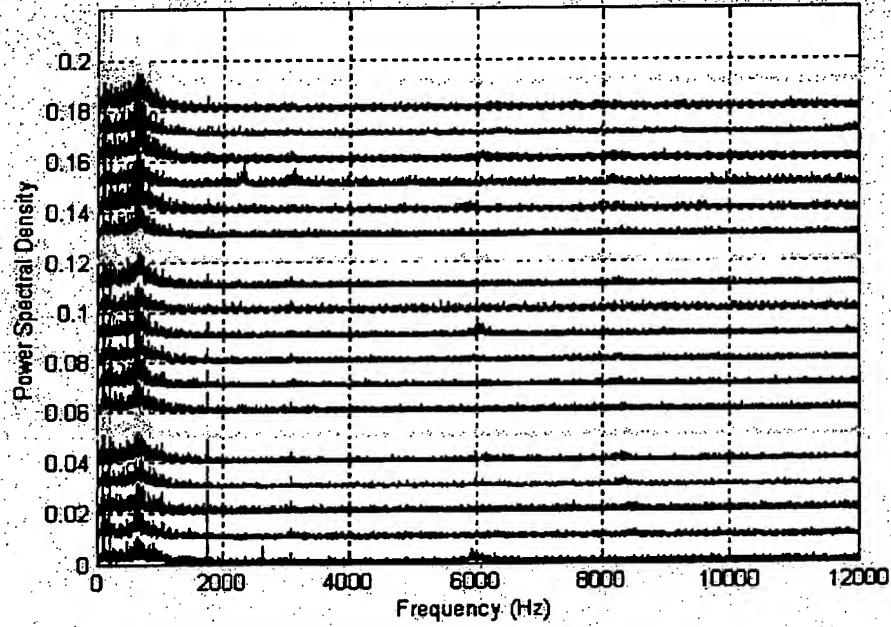
FIG. 6



DC squeeze (Air in Spindle air bearing & Air in Actuator bearing)

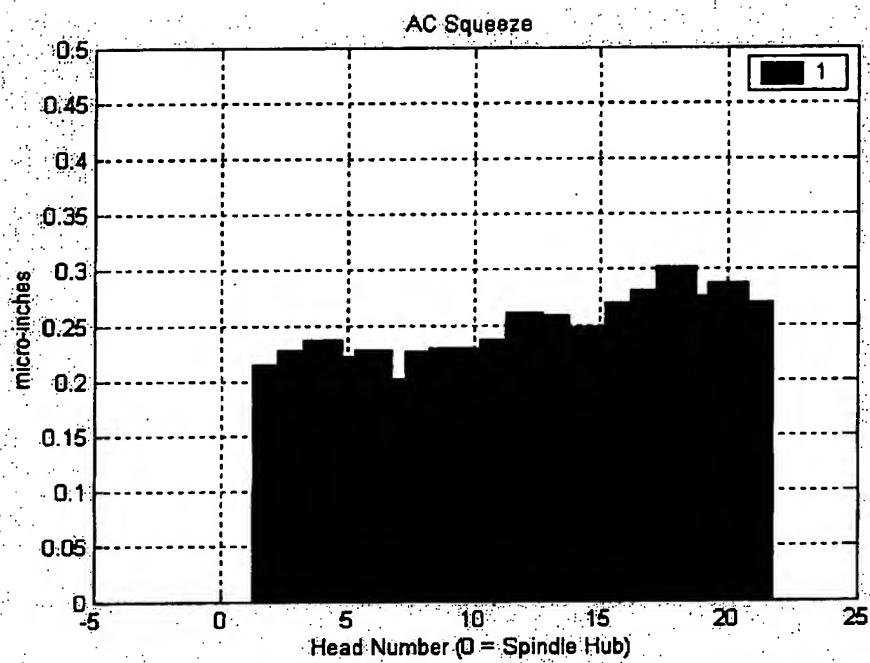
FIG. 7

Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



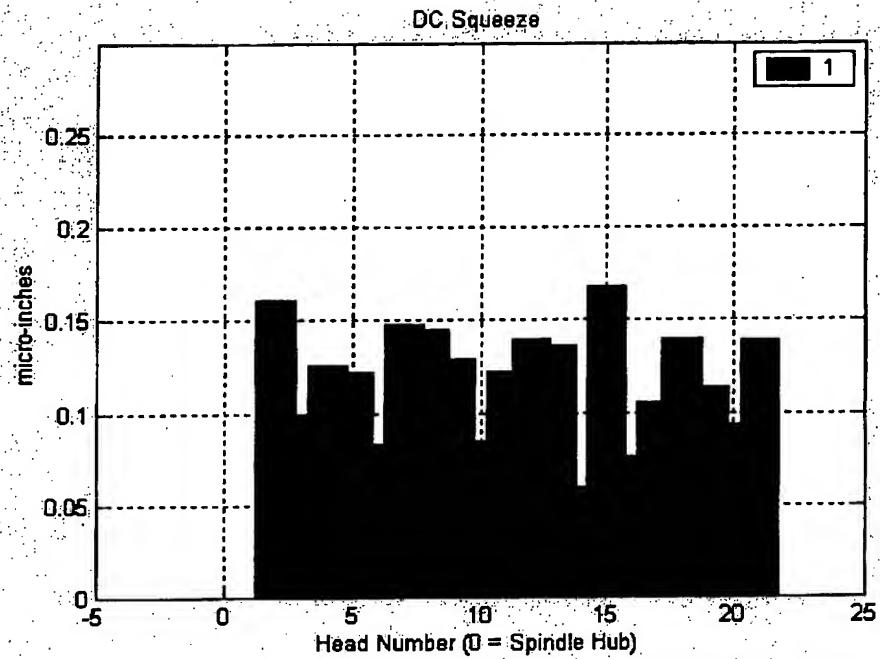
FFT (Air in Spindle air bearing & Air in Actuator bearing)

FIG. 8



AC Squeeze (Air in Spindle air bearing & Air in Actuator bearing)

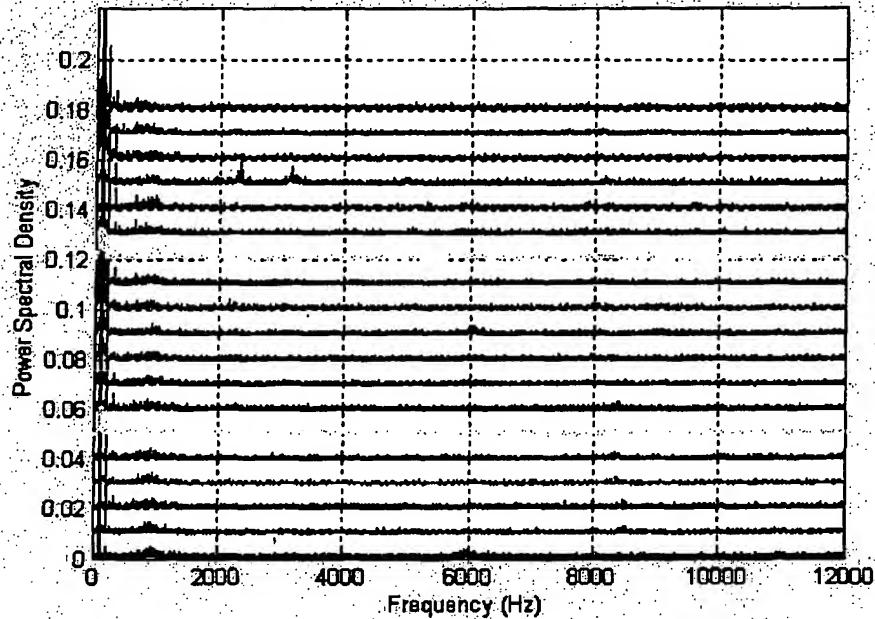
FIG. 9



DC Squeeze (Air in Spindle air bearing & Air in Actuator bearing)

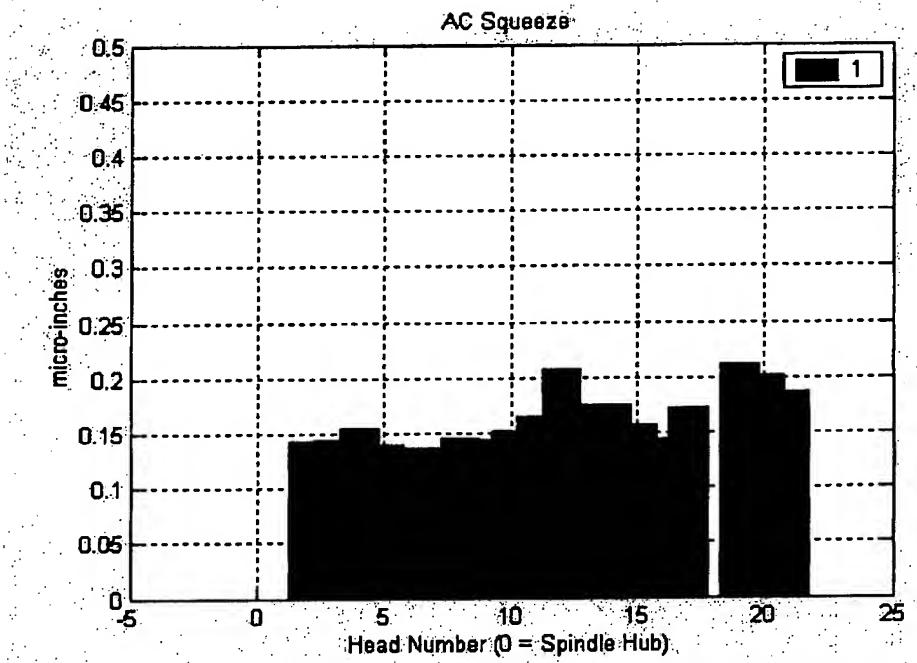
FIG. 10

i-Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



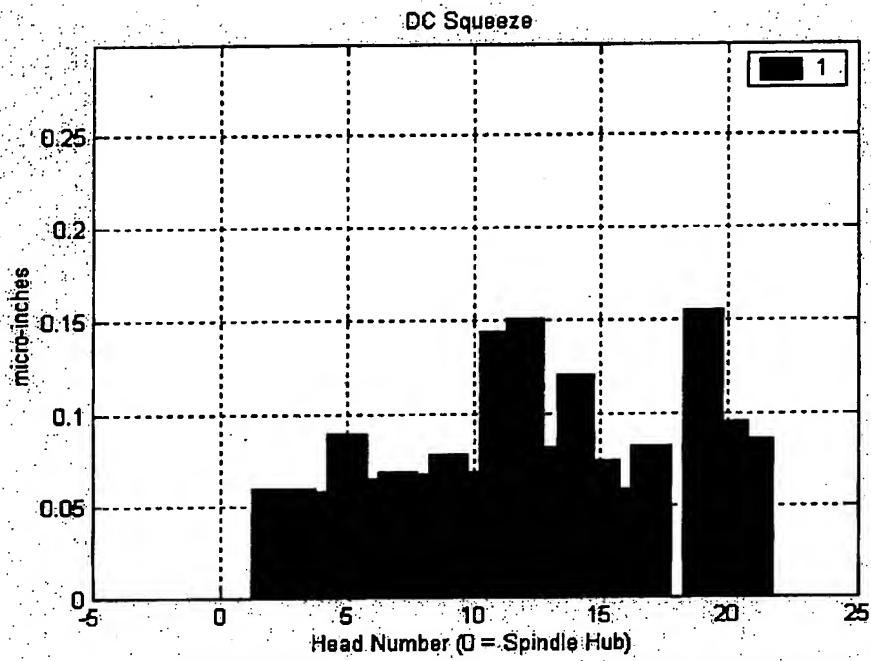
FFT (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 11



AC Squeeze (Helium in Spindle air bearing & Helium in Actuator bearing)

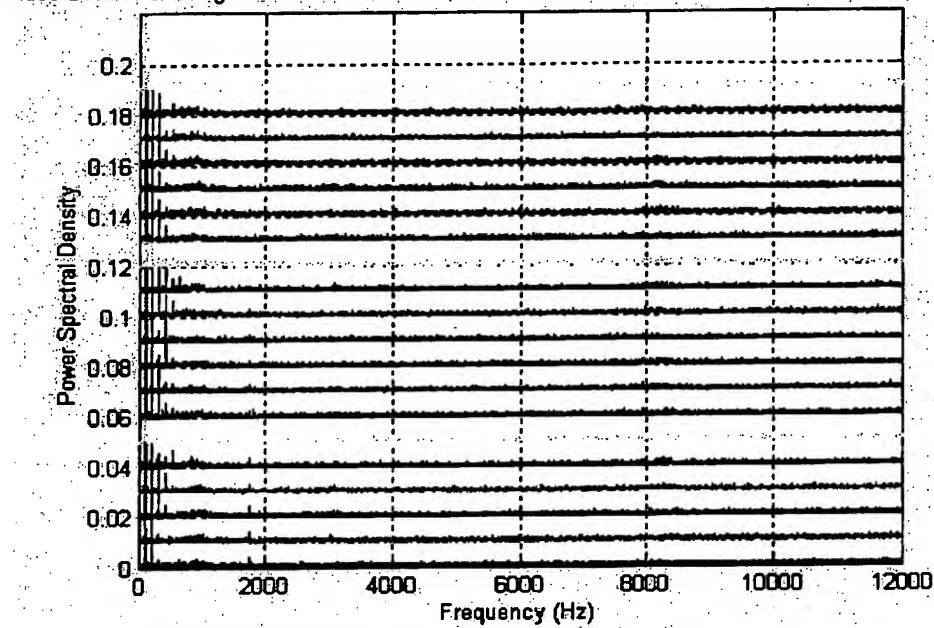
FIG. 12



DC Squeeze (Helium in Spindle air bearing & Helium in Actuator bearing)

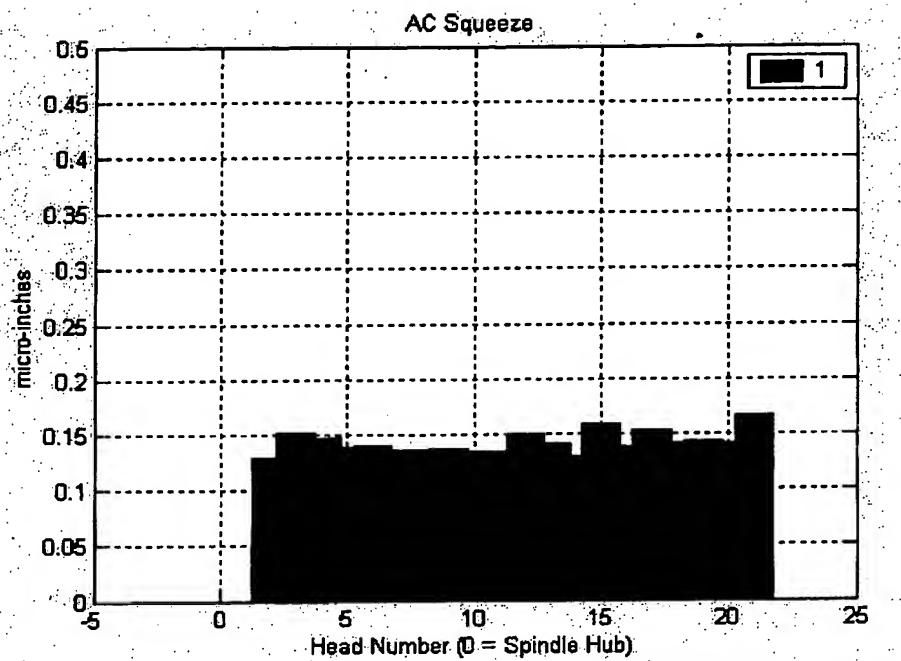
FIG. 13

Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



FFT (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 14



AC Squeeze (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 15

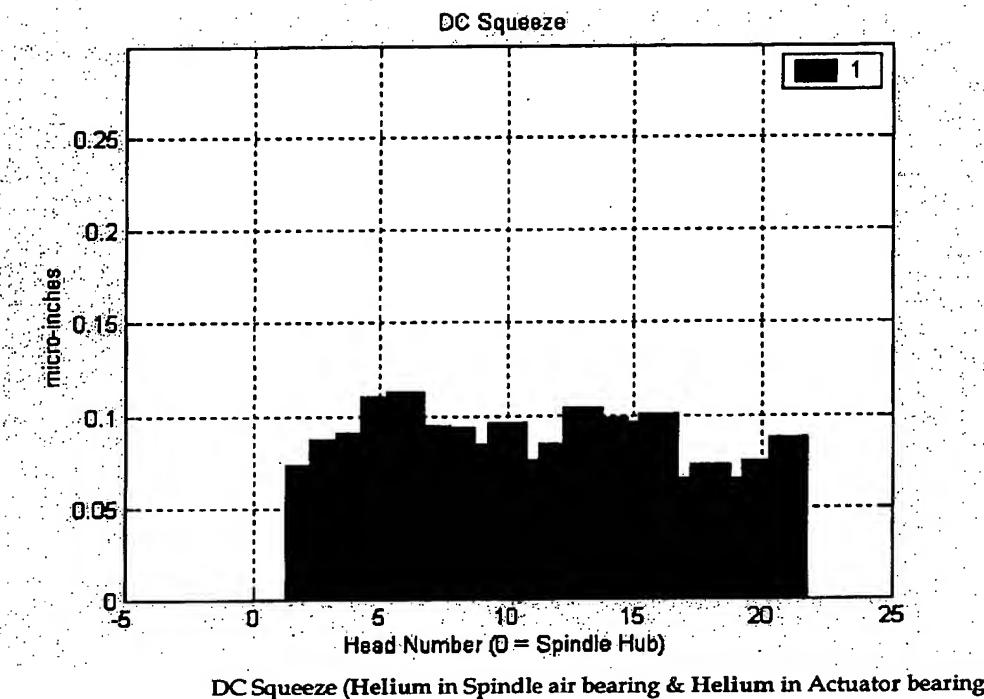


FIG. 16

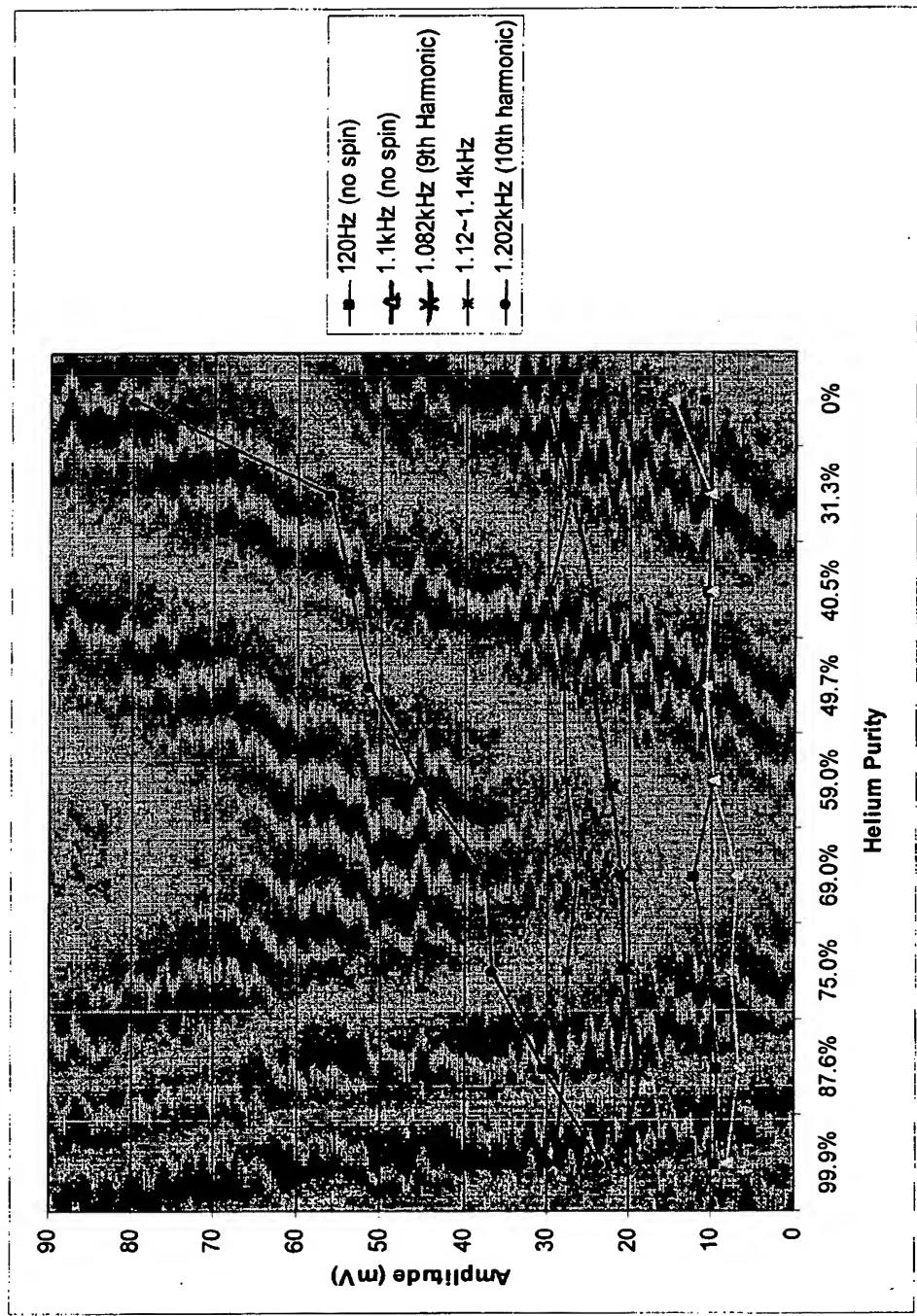


FIG. 17

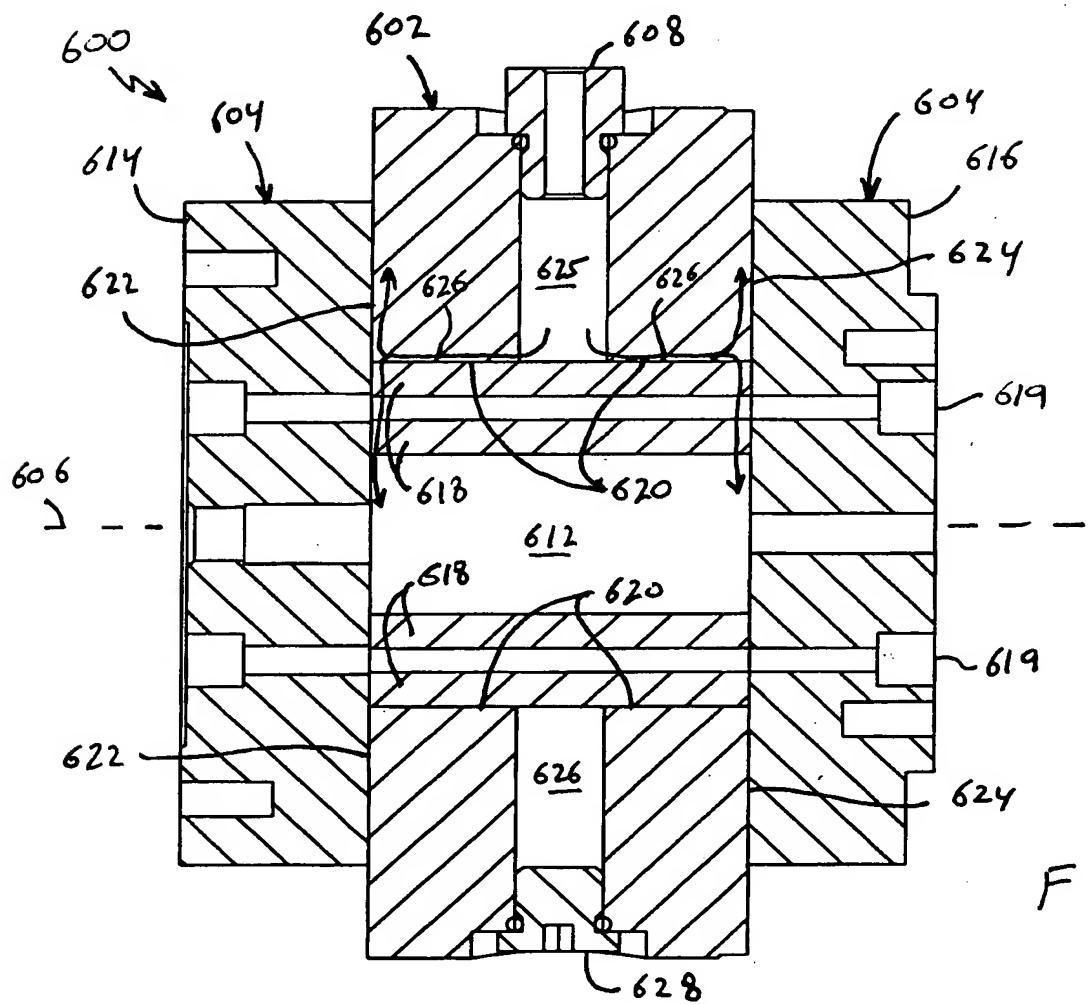
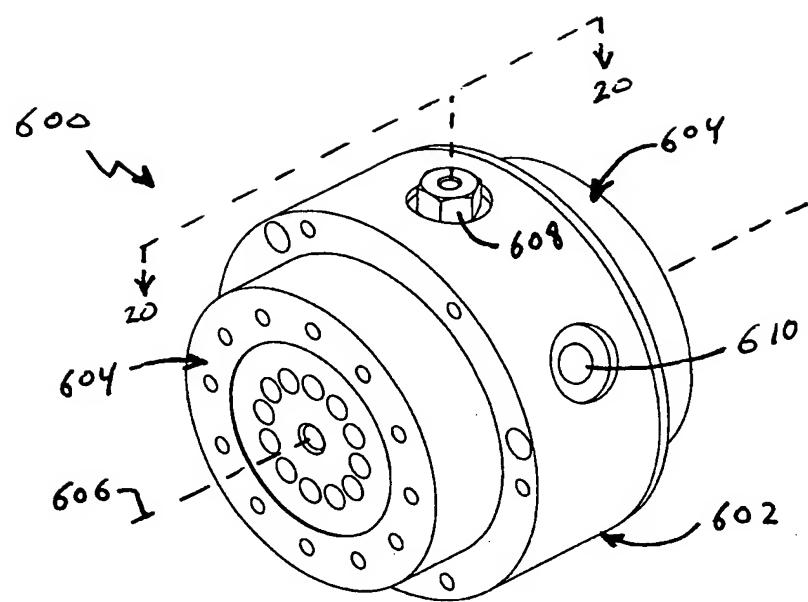
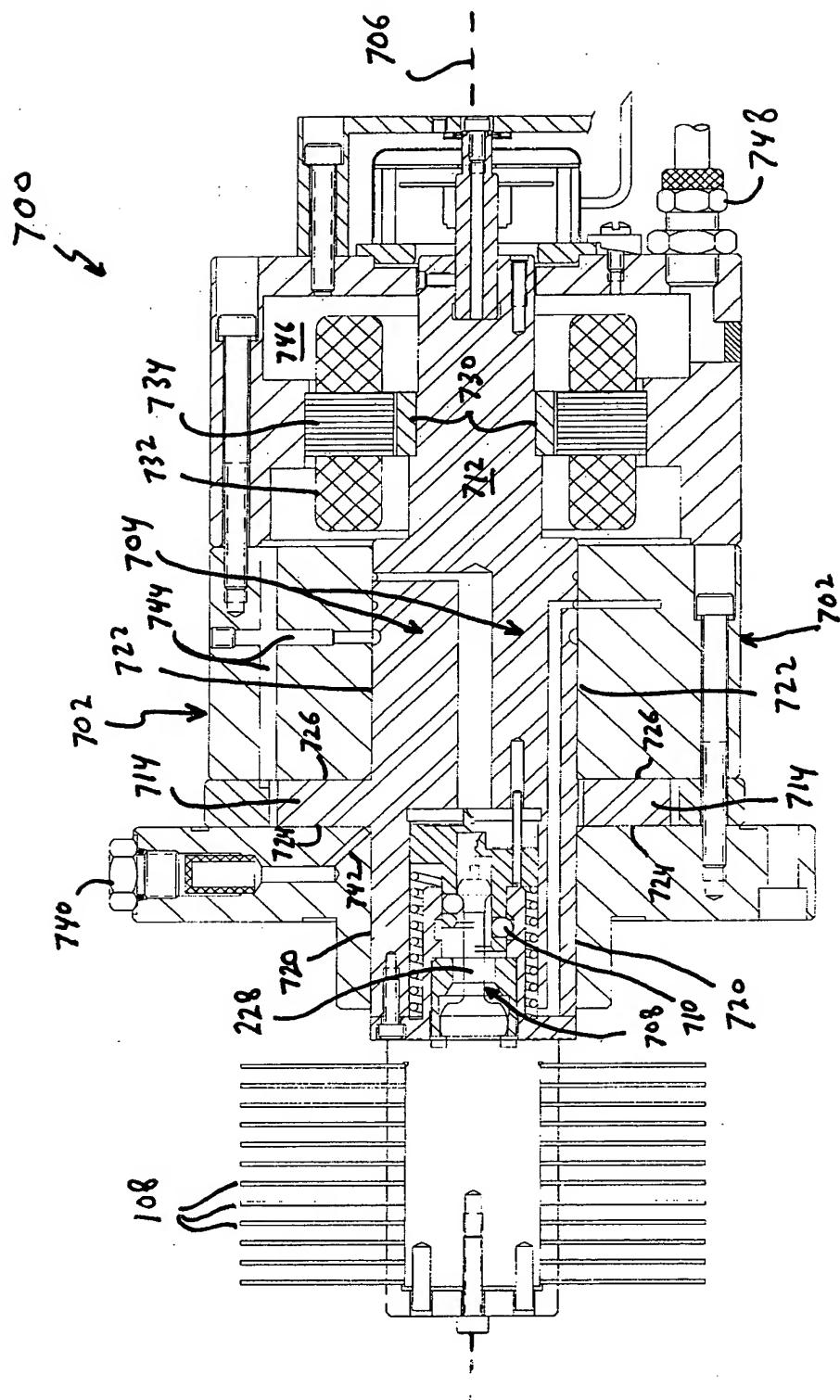


FIG. 21



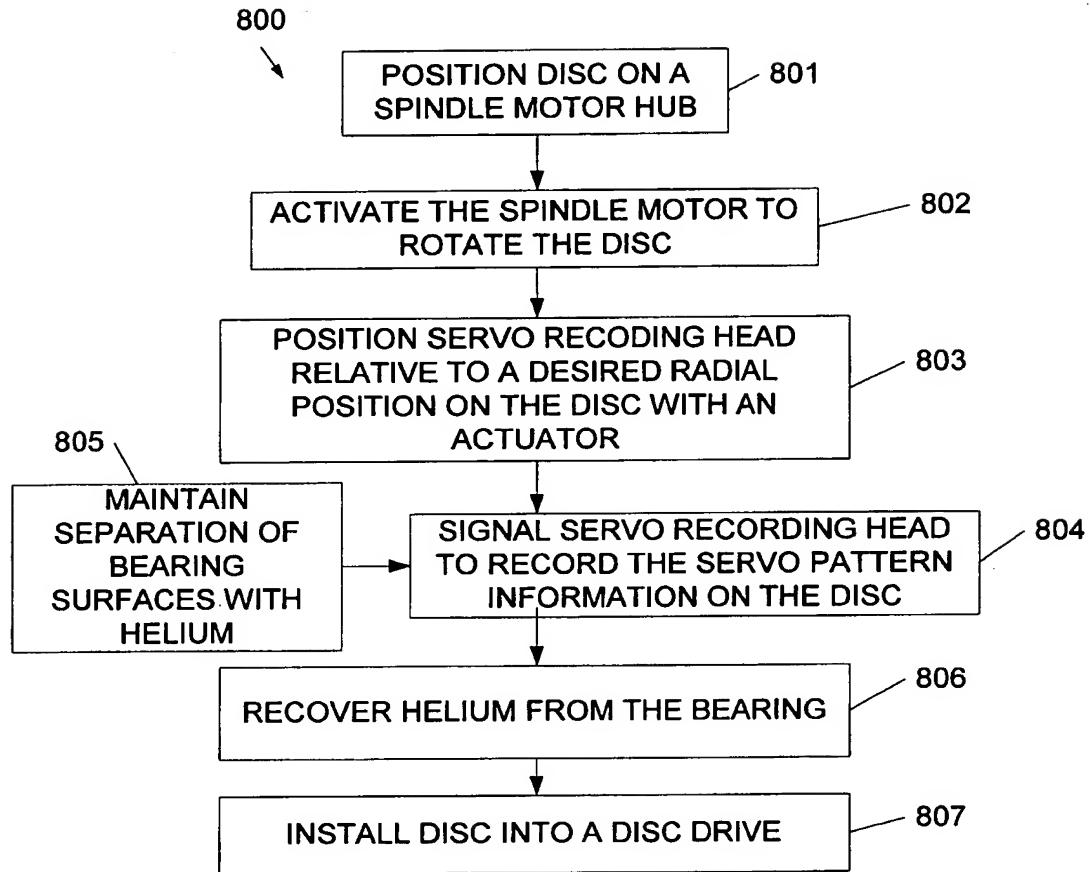


FIG. 22

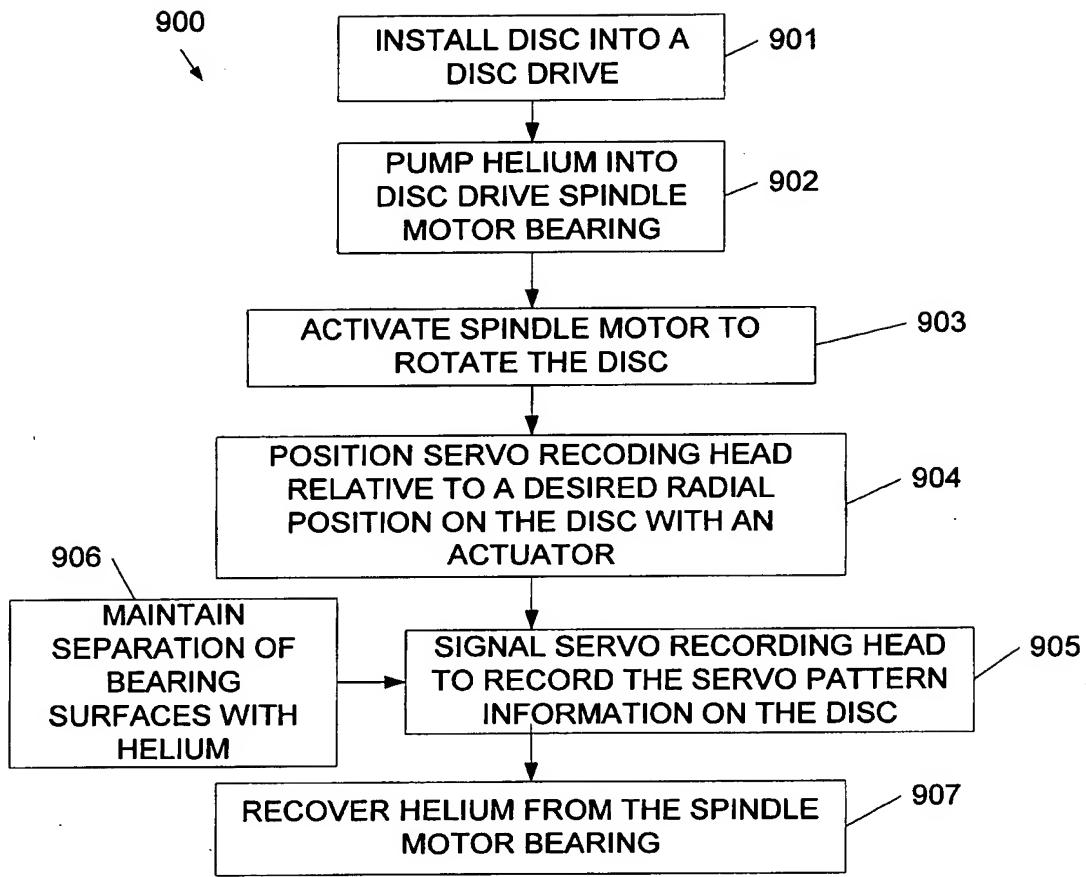


FIG. 23